KEVIN V. RYAN (CSBN 118321) United States Attorney		
UNITED STATE	S DISTRICT COURT	
NORTHERN DIST	RICT OF CALIFORNIA	
SAN JOSE DIVISION		
UNITED STATES OF AMERICA,	No. CR 04-20216 JF	
Plaintiff,)	VIOLATIONS: 18 U.S.C. § 371 – Conspiracy; 18 U.S.C. §§ 1831(a)(2),	
v.	1831(a)(3), 1831(a)(4) – Economic Espionage and Attempted Economic	
ĺ (Espionage; 22 U.S.C. § 2778 – Arms Export Control Act; 18 U.S.C. §§ 1832(a)(1),	
Defendant.	1832(a)(3), 1832(a)(4) – Theft Of Trade Secrets and Attempted Theft Of Trade Secrets; 18 U.S.C. § 2314 - Foreign and	
,	Interstate Transportation of Stolen Property; 18 U.S.C. § 1001 – False Statement To Government Agency; 18 U.S.C. § 2 - Aiding	
	and Abetting; 18 U.S.C. §§ 1834 and 50 App. U.S.C. § 2410(g) – Criminal Forfeiture	
	SAN JOSE VENUE	
The Grand Jury charges:		
SUPERSEDING INDICTMENT		
At all times relevant to this Indictment:		
Quantum3D		
1. Quantum3D Inc. ("Quantum3D	"), based in San Jose, California, was a company	
that produced hardware and software components for simulation systems for commercial and		
Superseding Indictment CR 04-20216 JF		
	United States Attorney UNITED STATE NORTHERN DIST SAN JOS UNITED STATES OF AMERICA, Plaintiff, v. XIAODONG SHELDON MENG, Defendant. The Grand Jury charges: SUPERSEDIN BACKGROUND At all times relevant to this Indictment Quantum3D 1. Quantum3D Inc. ("Quantum3E that produced hardware and software componed superseding Indictment	

military customers. Quantum3D developed integrated interactive 3D visual computing systems, realtime 3D graphics subsystems, and related system software, for the visual simulation and training market. The products of Quantum3D included high-end visual simulation systems, and interactive, open-architecture visual computing solutions, image generators, and embedded graphics subsystems. Some of the products of Quantum3D were regulated by the International Traffic in Arms Regulations (ITAR), such as "nVSensorTM" and "viXsenTM". The products of Quantum3D were sold and shipped, and intended to be sold and shipped, in interstate and foreign commerce.

 CG^2

2. CG², Inc. (CG²), based in Huntsville, Alabama, was a company engaged in the business of developing software products and services for real-time 3D graphics visualization, 3D model development, and simulation development. The products of CG² were sold and shipped, and intended to be sold and shipped, in interstate and foreign commerce.

Quantum3D and CG² Merger

3. In or about July 2002, Quantum3D and CG² merged and CG² became a wholly owned subsidiary of Quantum3D.

Quantum3D Products

- 4. Many of the products of Quantum3D were designed primarily for military purposes, including military combat training in simulated real-time conditions during the day and night and the use of advanced infrared (IR), Electro-Optical (EO), and Night Vision Goggle (NVG) devices.
 - 5. Quantum3D owned the following products:
- a. "MantisTM" (Mantis) was used for visual simulation to render 3D scenes and to simulate motion in the real world for training and other purposes. Mantis was comprised of two components, the MantisClient and the MantisServer. MantisClient received commands from the customer "host" computer; coordinated with MantisServer to control the 3D scene; and allowed plug-ins (or add-ons) for added capability (e.g. igSigSim/ViXsen, ChannelMask).

MantisClient rendered 3D scenes; allowed plug-ins for added capability (e.g. igSigSim/ViXsen,

ChannelMask); and sent output to a display or projector. Collectively, MantisClient and MantisServer provided an "Open-Platform" software Image Generator (IG) that was used for designing, building, and deploying high-end visual simulation scenarios. Mantis was designed to work with additional software plug-ins that offer additional capabilities, including special effects, sensors, weather, and lighting along with mission functions. Mantis was used alone or with additional programs (or "plug-ins") to simulate various conditions that arise in flight or battlefield conditions, including real-time sensor effects, such as "viXsenTM".

- b. "viXsenTM"(previously named "igSigSim") (hereinafter viXsen) was a Quantum3D visual simulation software program used for training military fighter pilots who were utilizing night visual sensor equipment (e.g. thermal imaging). viXsen, exclusively used in military applications, used a physics-based, dynamic, real-time sensor simulation product that allowed users to model advanced IR, EO, and NVG devices. viXsen was a sensor product that was designed to perform advanced heat transfer algorithms. The combination of viXsen and Mantis allowed visualization of real-time correlated and realistic sensor views for military training environments. viXsen was regulated under United States International Traffic in Arms Regulations ("ITAR").
- c. "nVSensor™" (nVSensor), which had both a hardware and software component, provided night vision simulation and operated in conjunction with viXsen along with Quantum3D hardware, including AAlchemy and Obsidian graphics subsystems. nVSensor, exclusively used in military applications, is designed for precision training and simulation applications that require high-fidelity NVG and/or IR synthetic environments. nVSensor supported special effects including blur, noise, scintillations, gain, bias, reticles and symbology, AC coupling, automatic gain control, polarity inversion, and white-hot/black-hot settings. nVSensor was also regulated under ITAR.
- d. "OpenGVS (OpenGVS) Software Development Kit" (SDK) offered seamless real-time solutions that bridge the gap between PC and UNIX platforms. OpenGVS was a comprehensive applications programming interface (API) for PCs and 3D graphics workstations. OpenGVS allowed the user to use 3D database development and equations of

motion.

- e. The "VTree™ SDK" was a comprehensive 3D graphics toolkit. VTtree SDK was used to convert 3D models into a format which would be usable by Mantis.
- f. "Audition" software supported real-time viewing and manipulation of 3-D data. The Audition viewer was loaded data into VTree and other file formats. Audition was a Q3D software tool used to validate the functionality of 3D models when integrated into Mantis.
- g. "Channel Mask" was a software plug-in used to crop an image being displayed so that the image fit the display, such as the windshield of a cockpit.
- h. "SpliceTree" was used to view models and the internal organization of the model to ensure it was properly constructed.
- i. "Big Demo" was a demonstration program used to highlight the capabilities of Mantis and other Quantum3D products.

Defendant Meng's Positions, Tenure, And Obligations With Quantum3D

- 6. During on or about June 19, 2000 to on or about March 7, 2003, defendant XIAODONG SHELDON MENG was employed at Quantum3D as a Systems Engineer VST, computer systems analyst, and 3D Graphics Application Senior Engineer.
- 7. On or about June 19, 2000, defendant Meng signed Quantum3D's "Employee Proprietary Information Agreement" as part of his employment. This agreement provided in part:

"I agree that, at the time of leaving the employ of the company, I will deliver to the Company (and I will not keep in my possession or deliver to anyone else) any and all devices, records, data, notes, reports, proposals, lists, correspondence, specifications, drawings, blueprints, sketches, materials, equipment, other documents or property or reproductions of any aforementioned items belonging to the company, its successors or assigns."

- 8. In or about August 2002, defendant XIAODONG SHELDON MENG attended a training conference in Huntsville, Alabama to learn more about Mantis and other CG² products.
- 9. On or about March 7, 2003, defendant XIAODONG SHELDON MENG resigned his position from Quantum3D.
- 10. On or about March 7, 2003, defendant XIAODONG SHELDON MENG falsely made the following statement:

"This is to certify that I do not have in my possession, nor have I failed to return,

- any specifications, drawings, blueprints, reproductions, sketches, notes, reports, proposals, or copies of them, or other documents or materials, tools, equipment, or other property belonging to Quantum3D (the 'Company')."
- 11. During the period from on or about March 7, 2003 to on or about April 1, 2003, defendant XIAODONG SHELDON MENG had no employment, consulting or other relationship with Quantum3D.
- 12. On or about March 19, 2003, defendant XIAODONG SHELDON MENG entered into a "Consulting Services Agreement" with Quantum3D, effective April 1, 2003, in which MENG would serve as an independent consultant for Quantum3D in Asia.
- 13. On or about March 26, 2003, defendant XIAODONG SHELDON MENG departed the United States from San Francisco, California for Taipei, Republic of China (Taiwan).
- 14. Between on or about April 1, 2003, to on or about December 31, 2003, defendant XIAODONG SHELDON MENG served as an independent consultant for Quantum3D in Asia. Meng resided in the People's Republic of China (PRC).
- 15. On or about January 6, 2004, defendant XIAODONG SHELDON MENG represented that he was a Manager for Orad, Inc. (Orad), a direct competitor of Quantum3D, specifically, Orad Vis-Sim Asia Sales using the email address of sheldonm@orad.tv.
- 16. On or about January 15, 2004, defendant XIAODONG SHELDON MENG ended his consulting relationship with Quantum 3D citing an effective date of December 31, 2003. Meng had already taken a position with Orad, a direct competitor of Quantum3D, in the PRC, and indicated his desire to "pursue other career development opportunities in China."

The Export and Import of Defense Articles

- 17. The export from, and import into, the United States of arms, munitions, military aircraft parts, and related components, and the technology to build such items, is heavily regulated by statutes and regulations.
- 18. The Arms Export Control Act, Title 22, United States Code, Section 2778, and the International Traffic in Arms Regulations (the "ITAR"), Title 22, Code of Federal Regulations, Part 120, authorize the United States State Department's Directorate of Defense

Trade Controls ("the DDTC") to establish the United States Munitions List ("the Munitions List").

- 19. The defense articles which are subject to such licensing requirements are designated on the United States Munitions List. Those designations are made by the State Department with the concurrence of the Defense Department, under 22 U.S.C. § 2778(a)(1), and 22 C.F.R. § 120.2. The Munitions List is a catalog of designated "defense articles" subject to export and certain import restrictions. Any person who intends to export, or import temporarily, defense articles on the Munitions List from or into the United States, is required to first obtain a license from the DDTC. In the application for an export license, the exporter is required to state, among other things, the nature of the defense articles to be exported, the end recipient of the defense articles and the purpose for which such articles are intended. These factors and others assist the DDTC in determining whether the export of the defense articles would further the security and foreign policy interests of the United States or would otherwise affect world peace. A foreign person, however, may not obtain a license to export an item on the United States Munitions List ("Munitions List").
- 20. Category IX of the Munitions List covered "Military Training Equipment and Training." The following defense articles were covered under Category IX:
- a. "Training equipment specifically designed, modified, configured or adapted for military purposes, including but not limited to weapons system trainers, radar trainers, gunnery training devices, antisubmarine warfare trainers, target equipment, armament training units, pilot-less aircraft trainers, navigation trainers and human-rated centrifuges."
 - b. "Simulation devices for the items covered by this subchapter."
- c. "Tooling and equipment specifically designed or modified for the production of articles controlled by this category."
- d. "Components, parts, accessories, attachments, and associated equipment specifically designed, modified, configured, or adapted for the articles in," the prior three paragraphs.
 - e. Technical data and defense services directly related to the defense articles

enumerated in paragraphs (a) and (d).

- 21. The Department of State had determined that viXsen and nVSensor were defense articles under Category IX of the Munitions List.
- 22. At no time did the defendant XIAODONG SHELDON MENG apply for, receive, or possess a license to export defense articles and services of any description.

<u>COUNT ONE</u>: (Conspiracy – 18 U.S.C. § 371)

- 23. Paragraphs One through Twenty-Two are hereby realleged and incorporated by reference as if set forth in full herein.
- 24. Beginning at a time unknown, but not later than in or about March 2003, and continuing thereafter through in or about December 2004, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

did knowingly combine, conspire, confederate and agree with others known and unknown to the Grand Jury, to commit the following offenses against the United States, that is:

- A. Intending and knowing that the offense would benefit a foreign government, and instrumentalities thereof, knowingly possess and without authorization copy, duplicate, and alter trade secrets belonging to Quantum3D, knowing the trade secrets to have been stolen, appropriated, and obtained without authorization, in violation of the Economic Espionage Act, Title 18, United States Code, Section 1831;
- B. Knowingly possess and without authorization copy, duplicate, and alter trade secrets trade secrets belonging to Quantum3D, knowing the trade secrets to have been stolen, appropriated, and obtained without authorization, in violation of Title 18, United States Code, Section 1832;
- C. Unlawfully transport in foreign and interstate commerce stolen goods, wares and merchandise of Quantum3D of the value of \$5,000 or more, knowing the same to have been stolen, in violation of Interstate and Foreign Transportation of Stolen Property Act, Title 18, United States Code, Section 2314.

This conspiracy involved the unauthorized use of Quantum3D products and materials with entities and government agencies in Thailand, including the Royal Thai Air Force.

MANNER AND MEANS OF THE CONSPIRACY

In furtherance of the conspiracy, defendant XIAODONG SHELDON MENG, and others known and unknown to the Grand Jury, employed the following manner and means among others:

- 25. It was a part of the conspiracy that defendant XIAODONG SHELDON MENG failed to deliver and return to Quantum3D, as required and as he had previously agreed, property and material belonging to Quantum3D upon his termination with and leaving Quantum3D, including "any and all devices, records, data, notes, reports, proposals, lists, correspondence, specifications, drawings, blueprints, sketches, materials, equipment, other documents or property or reproductions of any aforementioned items."
- 26. It was further a part of the conspiracy that defendant XIAODONG SHELDON MENG took, without authorization, from the United States, numerous Quantum3D products to Asia, including defense articles on the U.S. Munitions List from the United States, including viXsen source code and nVSensor source code.
- 27. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG traveled to Asia, and took with him documents, products, source code, and materials containing or relating to trade secrets and products belonging to Quantum3D.
- 28. It was further a part of the conspiracy that defendant XIAODONG SHELDON MENG used Quantum3D products, without authorization, in proposals with foreign governments and customers, including but not limited to the Royal Thai Air Force, the Royal Malaysian Air Force, and the PRC.
- 29. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG and other persons, known and unknown to the Grand Jury, would and did attempt to recruit others, including engineers from the Thailand, the PRC, and Malyasia to participate in and work proposals and demonstration projects involving foreign governments and companies.
- 30. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG and other persons, known and unknown to the Grand Jury, included Quantum3D products and ideas in proposals and demonstration projects involving foreign governments and companies.
- 31. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG possessed a compiler program which could be used to convert source code into an executable application.

- 32. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG, and others known and unknown to the Grand Jury, attempted to compile, or caused to be compiled, source code belonging to Quantum3D.
- 33. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG established and worked with other companies for the purpose of selling products in the visual simulation market, in competition with Quantum3D. The companies included 4-D Space, Orad, EastCad, Heitech Padhu, and Thai Equipment Research Co. Ltd.
- 34. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG copied a Q3D software program involving 3D military training software program to his laptop.
- 35. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG, and others unknown to the Grand Jury, offered to sell and provide technology and software source code as part of the proposals to foreign governments and customers in the visual simulation market.
- 36. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG used various e-mail accounts to communicate with coconspirators and others concerning the use of Quantum3D products in proposals and demonstration projects involving foreign governments and companies, including smeng@ayahoo.com.cn, sheldon@keverian.com, smeng@ayahoo.com.cn, sheldon@keverian.com, smeng@ayahoo.com, sheldon@keverian.com, sheldon.com, sheldon.com, sheldon.com, sheldon.com, sheldon.com, sheldon.com, <a href="mailto:
- 37. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG, directed, and caused to be directed, another person unknown to the Grand Jury, to delete approximately nine-hundred sixty-six (966) emails from defendant XIAODONG SHELDON MENG's account at smeng_cn@yahoo.com.cn.

OVERT ACTS

- 38. In furtherance of the conspiracy, and to effectuate its objects, defendant XIAODONG SHELDON MENG, committed overt acts, in the Northern District of California, and elsewhere, including:
 - a. On or about July 27, 2004, defendant XIAODONG SHELDON MENG e-

mailed a person known to the Grand Jury, using email account <a href="mailed-e

- b. On or about July 27, 2004, a person known to the grand jury told defendant XIAODONG SHELDON MENG that the Quantum3D Obsidian FX could be stored in Thailand and directed that the Quantum3D Obsidian FX be sent to the Thai Equipment Research Company, Ltd. in Bankgkok, Thailand, including for the Royal Thai Air Force proposal.
- c. On or about August 16, 2004, defendant XIAODONG SHELDON MENG unzipped, or caused someone to unzip, the zipfile containing source code for product of Quantum3D.
- d. Between on or about December 22, 2004 and on or about January 2, 2005, defendant XIAODONG SHELDON MENG, directed, and caused to be directed, another person unknown to the Grand Jury, to delete approximately nine-hundred sixty-six (966) emails from defendant XIAODONG SHELDON MENG's account at smeng_cn@yahoo.com.cn.
- e. Paragraphs 47(a), 47(b), 47(c), 47(d), and 47(e) are hereby realleged and incorporated by reference as if set forth in full herein.

All in violation of Title 18, United States Code, Section 371.

COUNT TWO: (Conspiracy – 18 U.S.C. § 371)

- 39. Paragraphs One through Twenty-Two are hereby realleged and incorporated by reference as if set forth in full herein.
- 40. Beginning at a time unknown, but not later than in or about March 2003, and continuing thereafter through in or about December 2004, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

did knowingly combine, conspire, confederate and agree with others known and unknown to the Grand Jury, to commit the following offenses against the United States, that is:

A. Intending and knowing that the offense would benefit a foreign government, and instrumentalities thereof, knowingly possess and without authorization copy, duplicate, and alter trade secrets belonging to Quantum3D, knowing the trade secrets to have been stolen, appropriated, and obtained without authorization, in

violation of the Economic Espionage Act, Title 18, United States Code, Section 1831;

- B. Knowingly possess and without authorization copy, duplicate, and alter trade secrets trade secrets belonging to Quantum3D, knowing the trade secrets to have been stolen, appropriated, and obtained without authorization, in violation of Title 18, United States Code, Section 1832;
- C. Unlawfully transport in foreign and interstate commerce stolen goods, wares and merchandise of Quantum3D of the value of \$5,000 or more, knowing the same to have been stolen, in violation of Interstate and Foreign Transportation of Stolen Property Act, Title 18, United States Code, Section 2314.

This conspiracy involved the unauthorized use of Quantum3D products and materials with entities and government agencies in the PRC, including Beijing Lantian Aviation Simulation Technology Company (BASC) (also referred to as Beijing Aviation Science and Technology Co., Ltd., and Blue Sky), a subsidiary of China Aviation Industry Corporation I (AVIC I), the Navy Research Center of the PRC, and the Shenzhen Land Management Bureau.

MANNER AND MEANS OF THE CONSPIRACY

In furtherance of the conspiracy, defendant XIAODONG SHELDON MENG, and others known and unknown to the Grand Jury, employed the following manner and means among others:

- 41. Paragraphs Twenty-Five through Thirty-Seven are hereby realleged and incorporated by reference as if set forth in full herein.
- 42. It was further part of the conspiracy that defendant XIAODONG SHELDON MENG, and others unknown to the Grand Jury, altered Mantis version 1.5.5 to reflect the name of a program (identified as DVG10) which belonged to ORAD, a competitor of Quantum3D, and which was included as part of a demonstration project in the PRC.

OVERT ACTS

- 43. In furtherance of the conspiracy, and to effectuate its objects, defendant XIAODONG SHELDON MENG, committed overt acts, in the Northern District of California, and elsewhere, including:
- a. Paragraphs 38(c) and 38(d) are hereby realleged and incorporated by reference as if set forth in full herein.
 - b. On or about May 19, 2004, defendant XIAODONG SHELDON MENG

reference as if set forth in full herein.

45. Beginning at a time unknown, but not later than in or about March 2003, and continuing thereafter through in or about December 2004, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

did knowingly combine, conspire, confederate and agree with others known and unknown to the Grand Jury, to commit the following offenses against the United States, that is:

- A. Intending and knowing that the offense would benefit a foreign government, and instrumentalities thereof, knowingly possess and without authorization copy, duplicate, and alter trade secrets belonging to Quantum3D, knowing the trade secrets to have been stolen, appropriated, and obtained without authorization, in violation of the Economic Espionage Act, Title 18, United States Code, Section 1831;
- B. Knowingly possess and without authorization copy, duplicate, and alter trade secrets trade secrets belonging to Quantum3D, knowing the trade secrets to have been stolen, appropriated, and obtained without authorization, in violation of Title 18, United States Code, Section 1832;
- C. Unlawfully transport in foreign and interstate commerce stolen goods, wares and merchandise of Quantum3D of the value of \$5,000 or more, knowing the same to have been stolen, in violation of Interstate and Foreign Transportation of Stolen Property Act, Title 18, United States Code, Section 2314.

This conspiracy involved the unauthorized use of Quantum3D products and materials with entities and government agencies in Malaysia, including the Royal Malaysian Air Force.

MANNER AND MEANS OF THE CONSPIRACY

In furtherance of the conspiracy, defendant XIAODONG SHELDON MENG, and others known and unknown to the Grand Jury, employed the following manner and means among others:

46. Paragraphs Twenty-Five through Thirty-Seven are hereby realleged and incorporated by reference as if set forth in full herein.

OVERT ACTS

- 47. In furtherance of the conspiracy, and to effectuate its objects, defendant XIAODONG SHELDON MENG, committed overt acts, in the Northern District of California, and elsewhere, including:
- a. Paragraphs 38(c) and 38(d) are hereby realleged and incorporated by reference as if set forth in full herein.

- b. On or about June 15, 2003, defendant XIAODONG SHELDON MENG, and others unknown to the Grand Jury, attempted to compile, and caused to be compiled, Audition source code version 4.1.0.46.
- c. On or about August 17, 2003, defendant XIAODONG SHELDON MENG attempted to compile, and caused others to attempt to compile, Fulcrum source code, a product Quantum3D.
- d. On or about August 17, 2003, defendant XIAODONG SHELDON MENG attempted to compile, and caused others to attempt to compile, source code into the MantisClient application.
- e. On or about June 20, 2004, defendant XIAODONG SHELDON MENG sent an email to a person known to the Grand Jury suggesting the use of Quantum3D products viXsen and Mantis for an image generator proposal. Defendant Meng also noted that he had "genius engineers in China who are interested in developing Sensor" products.

All in violation of Title 18, United States Code, Section 371.

COUNT FOUR: (Economic Espionage and Attempted Economic Espionage – 18 U.S.C. §§ 1831(a)(3), 1831(a)(4) and 2)

- 48. Paragraphs One through Sixteen are hereby realleged and incorporated by reference as if set forth in full herein.
- 49. Beginning in or about March 2003 and continuing to in or about December 2004, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

intending and knowing that the offense would benefit a foreign government, namely Thailand, and instrumentalities thereof including the Royal Thai Air Force, did knowingly possess trade secrets belonging to Quantum3D, that is, Mantis and viXsen, and attempt to do so, knowing the trade secrets to have been stolen, appropriated, and obtained without authorization.

All in violation of Title 18, United States Code, Sections 1831(a)(3), 1831(a)(4) and 2.

COUNT FIVE: (Economic Espionage and Attempted Economic Espionage – 18 U.S.C. §§ 1831(a)(3), 1831(a)(4) and 2)

50. Paragraphs One through Sixteen are hereby realleged and incorporated by

reference as if set forth in full herein.

51. Beginning in or about March 2003 and continuing to in or about December 2004, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

intending and knowing that the offense would benefit a foreign government, namely the PRC, and instrumentalities thereof including Beijing Lantian Aviation Simulation Technology Company (BASC) (also referred to as Beijing Aviation Science and Technology Co., Ltd., and Blue Sky), a subsidiary of China Aviation Industry Corporation I (AVIC I), the Navy Research Center of the PRC, and the Shenzhen Land Management Bureau, did knowingly possess trade secrets belonging to Quantum3D, that is, Mantis and viXsen, and attempt to do so, knowing the trade secrets to have been stolen, appropriated, and obtained without authorization.

All in violation of Title 18, United States Code, Sections 1831(a)(3), 1831(a)(4) and 2.

COUNT SIX: (Economic Espionage and Attempted Economic Espionage – 18 U.S.C. §§ 1831(a)(3), 1831(a)(4) and 2)

- 52. Paragraphs One through Sixteen are hereby realleged and incorporated by reference as if set forth in full herein.
- 53. Beginning in or about March 2003 and continuing to in or about December 2004, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

intending and knowing that the offense would benefit a foreign government, namely Malaysia, and instrumentalities thereof including the Royal Malaysia Air Force, did knowingly possess and did knowingly without authorization copy, duplicate, and alter trade secrets belonging to Quantum3D, that is, Mantis and viXsen, and attempt to do so, knowing the trade secrets to have been stolen, appropriated, and obtained without authorization.

All in violation of Title 18, United States Code, Sections 1831(a)(3), 1831(a)(4) and 2.

COUNTS SEVEN & EIGHT: (Arms Export Control Act – 22 U.S.C. § 2778 and 18 U.S.C. § 2)

54. Paragraphs One through Twenty-two are hereby realleged and incorporated by reference as if set forth in full herein.

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55. Beginning in or about March 2003 and continuing through in or about November 2004, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

did knowingly and willfully export and cause to be exported from the United States to the PRC, defense articles, that were designated as defense articles on the United States Munitions List, Title 22, Code of Federal Regulations, known as the International Traffic in Arms Regulations, without having first obtained from the Department of State a license for such export or written authorization for such export, as set forth in the separate counts below:

COUNT UNITED STATES MUNITIONS LIST DEFENSE ARTICLE	
7	viXsen source code
8	nV Sensor source code

All in violation of Title 22, United States Code, Section 2778 and Title 18, United States Code, Section 2.

COUNTS NINE THROUGH FOURTEEN:

(Misappropriation Of Trade Secrets and Attempted Misappropriation Of Trade Secret Violations – 18 U.S.C. §§ 1832(a)(1), 1832(a)(4))

- 56. Paragraphs One through Sixteen are hereby realleged and incorporated by reference as if set forth in full herein.
- 57. In or about August 2002, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

with intent to convert trade secrets belonging to Quantum3D to the economic benefit of someone other than the owner thereof, which trade secrets are related to and included in products that are produced for and placed in interstate and foreign commerce, did knowingly steal and without authorization appropriate, take, carry away, and conceal, and by fraud, artifice, and deception obtain such information, and attempt to do so, and intending and knowing that his act would injure Quantum3D, as set forth in the separate counts below:

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COUNT	TRADE SECRET
9	Mantis source code version 1.4.5 ER3
10	viXsen source code version
11	nVSensor source code
12	Channel Mask source code
13	Audition source code version 4.1.0.46
14	Vtree source code version 4.0

All in violation of Title 18, United States Code, Sections 1832(a)(1), 1832(a)(4) and 2.

COUNTS FIFTEEN THROUGH TWENTY:

(Misappropriation Of Trade Secrets and Attempted Misappropriation Of Trade Secret Violations – 18 U.S.C. §§ 1832(a)(3), 1832(a)(4))

- 58. Paragraphs One through Sixteen are hereby realleged and incorporated by reference as if set forth in full herein.
- 59. Beginning in or about March 2003 and continuing through in or about November 2004, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

with intent to convert trade secrets belonging to Quantum3D to the economic benefit of someone other than the owner thereof, which trade secrets are related to and included in products that are produced for and placed in interstate and foreign commerce, did knowingly possess such information knowing it to have been stolen, appropriated, obtained, and converted without authorization, and attempting to do so, and intending and knowing that his act would injure Quantum3D, as set forth in the separate counts below:

COUNT	TRADE SECRET
15	Mantis source code version 1.4.5 ER3
16	viXsen source code version
17	nVSensor source code
18	Channel Mask source code

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19	Audition source code version 4.1.0.46
20	Vtree source code version 4.0

All in violation of Title 18, United States Code, Sections 1832(a)(3), 1832(a)(4) and 2.

COUNTS TWENTY-ONE THROUGH TWENTY-SIX: (Interstate Transportation of Stolen Property – 18 U.S.C. §§ 2314 and 2)

- 60. Paragraphs One through Sixteen are hereby realleged and incorporated by reference as if set forth in full herein.
- 61. In or about August 2002, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

did unlawfully transport, transmit and transfer in interstate commerce from Huntsville, Alabama to San Jose, California, and elsewhere, stolen goods, wares and merchandise, of the value of \$5,000 or more, knowing the same to have been stolen, converted, and taken by fraud, as set forth in the separate counts below:

COUNT	STOLEN GOODS, WARES, AND MERCHANDISE
21	Mantis source code version 1.4.5 ER3
22	viXsen source code version
23	nVSensor source code
24	Channel Mask source code
25	Audition source code version 4.1.0.46
26	Vtree source code version 4.0

All in violation of Title 18, United States Code, Sections 2314 and 2.

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COUNTS TWENTY-SEVEN THROUGH THIRTY-THREE:

(Interstate Or Foreign Transportation of Stolen Property – 18 U.S.C. §§ 2314 and 2)

- 62. Paragraphs One through Sixteen are hereby realleged and incorporated by reference as if set forth in full herein.
- 63. Between in or about March 2003 through in or about November 2004, in the Northern District of California, and elsewhere, the defendant

XIAODONG SHELDON MENG,

did unlawfully transport, transmit and transfer in interstate or foreign commerce from San Jose, California, to Taipei, Taiwan, the PRC, and elsewhere, stolen goods, wares and merchandise, of the value of \$5,000 or more, knowing the same to have been stolen, converted, and taken by fraud, as set forth in the separate counts below:

COUNT	STOLEN GOODS, WARES, AND MERCHANDISE
27	Mantis source code version 1.4.5 ER3
28	viXsen source code version
29	nVSensor source code
30	Channel Mask source code
31	Audition source code version 4.1.0.46
32	Vtree source code version 4.0
33	Mantis version 1.5.5

All in violation of Title 18, United States Code, Sections 2314 and 2.

COUNTS THIRTY-FOUR THROUGH THIRTY-SIX: (False Statement To Government Agency – 18 U.S.C. § 1001)

- 64. Paragraphs One through Twenty-Two are hereby realleged and incorporated by reference as if set forth in full herein.
- 65. A federal criminal investigation ("the criminal investigation") commenced in the Northern District of California concerning the misappropriation and theft of trade secrets, materials and properties belonging to Quantum3D, and the unlawful export of United States Munitions List items. The criminal investigation focused on violations of federal law, including

1	but not limited	d to Conspiracy, Economic Espionage, and Attempted Economic Espionage; Arms
2	Export Control Act; Theft Of Trade Secrets and Attempted Theft Of Trade Secrets; and Foreign	
3	and Interstate Transportation of Stolen Property. The investigation was jointly undertaken by the	
4	Federal Bureau of Investigation ("FBI") and U.S. Immigration & Customs Enforcement ("ICE")	
5	each an agency within the jurisdiction of the executive branch of the government of the United	
6	States.	
7	66.	As part of the criminal investigation, defendant XIAODONG SHELDON MENG
8	was interview	ed regarding the following matters, among others, which were material to the
9	criminal investigation, including the extent and scope and role of XIAODONG SHELDON	
10	MENG, along with any others, in any:	
11	(a)	Theft, misappropriation and failure to return any materials and trade secrets
12	(b)	belonging to Quantum3D, including but not limited to source code; Unauthorized use of any materials and trade secrets belonging to Quantum3D, including but not limited to foreign countries and comments.
13	(c)	including but not limited to foreign countries and companies; Alteration of any materials and trade secrets belonging to Quantum3D, including but not limited to Mantis; and
14	(d)	Unauthorized export of United States Munitions List items, including materials of Quantum3D, in violation of the Arms Control Export Act.
15	67.	These matters were material to the criminal investigation, among others, as they
16	pertained to the identification of misappropriated, stolen and unauthorized properties taken from	
17	Quantum3D in and through Quantum3D and the Northern District of California.	
18	68.	On or about December 8, 2004, in the Northern District of California, and
19	elsewhere, the defendant	
20		XIAODONG SHELDON MENG,
21	. ,, .	
22	in a matter within the jurisdiction of the United States Department of Justice, Federal Bureau of	
23	Investigation, and United States Department of Homeland Security, Immigration and Customs	
24	Enforcement, an agency of the United States, that is, concerning violations of the export and	
25	import laws of the United States, economic espionage, and the foreign and interstate	

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fraudulent statements and representations of a material fact, as the defendant then and there well

transportation of stolen property, did knowingly and willfully make false, fictitious and

knew and believed, as set forth in separate counts below:

COUNT	FALSE STATEMENT
34	The defendant stated that he only had a few Quantum3D products on his laptop (including the Mantis application and OpenGVS program) and did not have any other Quantum3D files or programs on his laptop, when in truth and fact, the defendant knew that he had numerous Quantum3D files or programs on his laptop
35	The defendant stated that the software and programs on his laptop were not controlled under ITAR and did not require a license, when in truth and fact, the defendant knew that the software and programs on his laptop were controlled under ITAR and required a license
36	The defendant stated that he did not have any encryption on his laptop nor was it password protected, when in truth and fact, the defendant knew that the laptop had encryption and encrypted and password protected files on his laptop

All in violation of Title 18, United States Code, Section 1001.

<u>FORFEITURE ALLEGATION</u>: (18 U.S.C. § 1834 and 50 App. U.S.C. § 2410(g) – Criminal Forfeiture)

69. As a result of the offenses alleged in Counts Four, Five, and Six relating to violations of the Economic Espionage Act (18 U.S.C. § 1831), and Counts Seven through Eighteen, relating to violations of Theft of Trade Secrets (18 U.S.C. § 1832), of this superseding indictment, or any of them, defendant

XIAODONG SHELDON MENG,

shall forfeit to the United States, pursuant to 18 U.S.C. § 1834:

- (1) Any property constituting, or derived from, any proceeds the person obtained, directly or indirectly, as the result of such violation; and
- (2) Any of the person's property used, or intended to be used, in any manner or part, to commit or facilitate the commission of such violation, if the court in its discretion so determines, taking into consideration the nature, scope, and proportionality of the use of the property in the offense, including but not limited to:
 - A. Dell Inspiron Laptop Computer & "XEASY" Portable Hard Drive, Serial Number (01)07899029300375
 - B. Fujitsu Hard Drive 60 GB S/N NL14T3212J7L;
 - C. Samsung Hard Drive 40 GB S/N s03WJ10X838410.

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Superseding Indictment CR 04-20216 JF

1	70.	As a result of the offenses alleged in Counts Seven and Eight, relating to
2	violations of	the Arms Export Control Act (22 U.S.C. § 2778), of this superseding indictment, or
3	any of them,	defendant
4		XIAODONG SHELDON MENG,
5	shall forfeit to	the United States, pursuant to 50 App. §2410(g):
6	(1)	Any of their interest in, security of, claim against, or property or contractual rights of any kind in the goods or tangible items that were the subject of the foregoing
7	(2)	offense; Any of their interest in, security of, claim against, or property or contractual rights
8 9	(2)	of any kind in any tangible property that was used in the export or attempt to export that was the subject of the foregoing offense, including but not limited to: A. Dell Inspiron Laptop Computer & "XEASY" Portable Hard Drive, Serial
10		Number (01)07899029300375 B. Fujitsu Hard Drive 60 GB S/N NL14T3212J7L; C. Samsung Hard Drive 40 GB S/N s03WJ10X838410.
11 12	(3)	Any of their property constituting, or derived from, any proceeds obtained directly or indirectly as a result of the violation.
13	All in violation of Title 18, United States Code, Section 1834, and Title 50 App., United	
14	States Code, Section 2410(g).	
15	DATED: Dec	eember, 2006 A TRUE BILL.
16		
17		FOREPERSON
18	KEVIN V. RYAN United States Attorney	
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20		
21	MATTHEW A. PARRELLA Chief, San Jose Branch	
22	(Approved as	s to form:
23		AUSA MARK L. KROTOSKI
24		
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